Scorpio 1400 RL   G.SHDSL Router

Morph and harmonize your network

Descriptions

Tainet Scorpio 1400RL is a qualified G.SHDSL router adopting 16 TC-PAM line coding, equalization, a daptive filtering and echo cancellation technologies. The Scorpio 1400RL provides high-speed, symmetric LAN to LAN application over single/dual twisted pair copper cable and allows multiple xDSL lines to coexist on the same cable bundle. Intelligence of line rate adaption is implemented in Scorpio 1400RL, which carrie s maintenance-free feature, automatic line rate. The line rate can go up to 1536K, 2048K and 2304Kbps, up to 4608Kbps for 4 wire solution.

The user can easily configure G.SHDSL Router via the front panel LCD control or the ANSI compatible craft interface.

For remote operations, the user can control through Embedded Operation Channel (EOC) without visiting the a ctual location. Furthermore, Scorpio 1400RL's built in Ethernet port supports SNMP agent with the standard MIB files. All above features make Scorpio 1400RL an ideal solution for various applications using leased line connections such as Internet access, peer to peer file sharing, Web hosting Internet Gaming and Video Conference. The Scorpio 1400RL can be configured to work as a desktop CPE device or a stand-alone CO unit. It also interoperate s with the SHDSL router module used in the Tainet Scorpio 1000 rack.
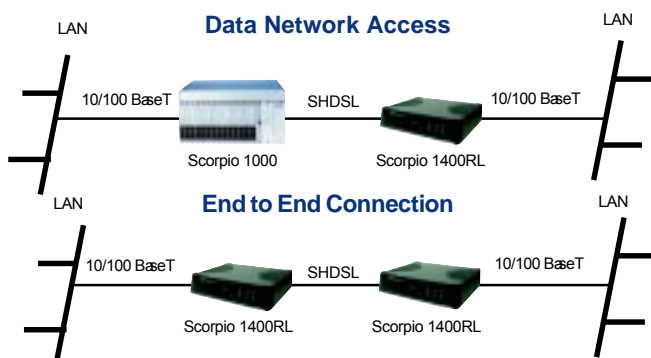
Features

- Meet IEEE 802.3 Relative requirements
- Fully compliant with ITU-T G.991.2 Standard for G.SHDSL
- G.SHDSL pre-activation/handshake procedures compliant with G.994.1
- 4 wires on-board solution
- EOC function enables remote configuration and monitoring
- V.54 loop back (manually or automatically enable)
- Easy configuration via LCD panel or Craft port
- TFTP firmware upgrade
- On-board SNMP agent is enable NMS control
- Support of wetting current keeps loop under best condition
- High density chassis Scorpio 1000 supports up to 14 line card total 28 port

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Application Diagram

Data Network Access

LAN — 10/100 BaseT — Scorpio 1000 — SHDSL — Scorpio 1400RL — 10/100 BaseT — LAN

End to End Connection

LAN — 10/100 BaseT — Scorpio 1400RL — SHDSL — Scorpio 1400RL — 10/100 BaseT — LAN

Technical Specifications

SHDSL Interface
- Line Coding: 16-TC-PAM
- Line Impedance: Balance 135 ohms
- Connector: RJ-45 connector
- Line Rate: Nx64Kbps (4W: N=2~72)
- Compliance: ITU-T G.991.2
- Operation Range: 2048kbps over 3.8 km under one 26 AWG twisted-pair

Ethernet Interface
- 10/100 Base-Tx Ethernet Interface
- Routing protocol: RIP1, RIP2, Static Routing
- Networking function: NAT/PAT, DHCP/BOOTTP Server, DNS proxy, ICMP, PPP, RAP/CHAP
- Bridging: Transparent bridging, learning, filtering

OAM&P
Self Test Functions:
- CPU self test
- ROM, RAM, interface chipset read/write
- G.shdsl interface loop back test
- Ethernet interface loop back test
- Power monitoring

Maintenance:
- Power On Self Test
- Watch Dog Timer
- Diagnostic functions

Alarm:
- G.shdsl interface LOS
- G.shdsl interface LOSW

Performance:
- G.shdsl interface Code Violation (CV)
- G.shdsl interface Errored Second (ES)
- G.shdsl interface LOSW Second (LOSWS)

Indicators and LCD display
- LCD: 2 x 16 characters with back-light
- LED: PWR - Power status
  - DSL - Connection
  - LAN - Link, Act
  - ALM - Alarm
  - TST - Loop Test

Power Requirement
- AC: 110/220V, autorange, 47~63Hz
- DC: -36~72V

Dimensions
- 279mm (W) x 200mm (D) x 63mm (H)

Operating Environment
- Operation temperature: 0°C~50°C
- Storage temperature: -40°C~70°C
- Relative humidity: up to 95% (non-condensing)

Regulatory Approval
- FCC part 68 and part 15
- ITU-T K.20, K.21
- CE

Ordering Info

Basic Unit	Description
Scorpio 1400RL/AC	4-wire SHDSL standalone unit with LCD and keypad operation panel, with ethernet interface, with built-in AC power module
Scorpio 1400RL/DC	4-wire SHDSL standalone unit with LCD and keypad operation panel, with ethernet interface, with built-in DC power module
Scorpio 1400RL/AC+DC	4-wire SHDSL standalone unit with LCD and keypad operation panel, with ethernet interface, with built-in AC and DC power module

* Specifications subject to change without notice.